Read and use angle facts

Stage 03 | Perform | 8 mixed items

Stage 03: Calculate one unknown

Perform

Show your working or construction on paper. State units where asked. For questions 7 and 8, explain your method. Numerical entries may be rounded to 2 decimal places.

Name: _____ Date: _____

Work on separate paper. Plot and label figures; retain compass arcs. Give a reason for items 7 and 8.

1. Two lines intersect. One angle is 110°. Find its vertically opposite angle.

2. Two lines intersect. One angle is 125°. Find its vertically opposite angle.

3. Two lines intersect. One angle is 137.5°. Find its vertically opposite angle.

4. Two lines intersect. One angle is 40°. Find its vertically opposite angle.

5. An angle of 65° and angle b form a straight line. Which equation represents the condition?

6. An angle of 72.5° and angle b form a straight line. Which equation represents the condition?

7. Diagnose an error. Two lines intersect. One angle is 110°. Find its vertically opposite angle. A learner answers “111”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. Two lines intersect. One angle is 125°. Find its vertically opposite angle.

Self-check after attempting: use the separate answer key on the skill page. Correct reasoning and a valid drawing matter as well as the final answer.

Mr. Devonish